

Message Text

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43

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DRAFTED BY PM/ ISO: FJFLEMINGS: ILB/ CSAF/ X0XX: SGT. BROOKS

6/8/73 EXT. 21003

APPROVED BY PM/ ISO: JDSTODDART

OSD/ ISA - LTC TERRY

EUR/ CAN - MR. SCHNEIDER

ISA/ EUR - MR. JAMES

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R 090003 Z JUN 73

FM SECSTATE WASHDC

TO AMEMBASSY OTTAWA

INFO OASD/ ISA/ FMRA WASHDC

CSAF/ X0XXGIF WASHDC

AFSC/ DOXF ANDREWS AFB MD

C O N F I D E N T I A L STATE 111761

E. O. 11652: ADS DECLAS WHEN OPERATING RIGHTS REQUESTED

HEREIN HAVE BEEN GRANTED

TAGS: MARR, TECH, CA

SUBJECT: USAF ANTENNAE AT FROBISHER HAMLET

REF: OTTAWA 1079

1. IN VIEW OF CANADIAN WISH REPORTED REFTEL, EMBASSY REQUESTED SEEK FOREIGN OPERATING RIGHTS FOR A SEGMENT OF PROJECT 673 A (OVER- THE- HORIZON BACKSCATTER (OTHB) HIGH LATITUDE PROPAGATION STUDIES), WHICH WILL REQUIRE A SMALL TEMPORARY REPEATER FACILITY IN VICINITY OF FROBISHER BAY. THE OBJECTIVE OF THIS PROGRAM IS TO DETERMINE IF IT IS POSSIBLE TO MONITOR AIRCRAFT MOVEMENTS IN THE POLAR REGION WITH AN OTHB RADAR FACILITY OUTSIDE THE POLAR AURORAL REGION.

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2. SINCE TECHNIQUES AND DATA TO BE OBTAINED FROM THE 673 A REPEATER BEACON FACILITY WOULD HAVE APPLICABILITY TO THE POLAR CAP III PROGRAM, PERSONNEL FROM ROME AIR DEVELOPMENT CENTER (RADC), GRIFFISS AFB, NY, CONSULTED CANADIAN PERSONNEL AT THE COMMUNICATIONS RESEARCH CENTER (MR. E. E. STEVENS), THE CANADIAN DEFENCE RESEARCH ESTABLISHMENT (DR. W. J. SURTEES), AND THE DEFENCE RESEARCH BOARD (MR. A. K. LONGAIR), TO DETERMINE IF INSTALLATION OF THE REPEATER FACILITY COULD NOT BE

CONSTRUED AS FALLING UNDER THE PROVISIONS OF THE 10 AUGUST 1971 POLAR CAP III AGREEMENT AND IMPLEMENTING MOU OF 20 MARCH 1972. ON 26 OCTOBER 1972 DEFENCE RESEARCH BOARD AUTHORIZED RADC TO USE LAND NEAR FROBISHER HAMLET FOR THE INSTALLATION OF THE REPEATER FACILITY.

3. REPEATER BEACON FACILITY IN VICINITY OF FROBISHER HAMLET CONSISTS OF:

(A) TRANSMITTER ANTENNA; TWO DIAMOND SHAPE ARRAYS 40 FEET WIDE 200 FEET LONG ARRANGED SIDE BY SIDE, APPROXIMATELY 4 FEET OFF THE GROUND, POWER OUTPUT 20 TO 50 WATTS IN THE 5 TO 20 MHZ BAND;

(B) SEVERAL AMPLIFIER RACKS WHICH ARE CURRENTLY HOUSED IN SMALL BUILDING BELONGING TO CANADIAN TELECOMMUNICATIONS AGENCY DEPT OF TRANSPORTATION; AND

(C) RECEIVER ANTENNA, DIAMOND SHAPE 40 FEET WIDE, 200 FEET LONG, 4 FEET ABOVE GROUND.

THIS ADDITIONAL SCIENTIFIC EXPERIMENT WILL NOT REQUIRE A PERMANENT INSTALLATION IN VICINITY OF FROBISHER HAMLET. OPERATING RIGHTS WILL BE REQUIRED AT LEAST THRU DEC 1974, AND POSSIBLY FOR ONE ADDITIONAL YEAR.

4. FOLLOWING RESPONDS TO SPECIFIC GOC CONCERNS OUTLINED REFTEL. EVERY EFFORT WILL BE MADE TO MOVE ANTENNA FROM GRAVEL PIT BY 15 JUNE 1973 TO SITE AGREEABLE TO EXTAFF AND HAMLET MANAGER. HOWEVER, DELAYS MIGHT BE ENCOUNTERED BECAUSE OF WEATHER AND UNAVAILABILITY OF NECESSARY
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EQUIPMENT (E. G., FENCING MATERIAL) TO REINSTALL BEACON AT NEW LOCATION. COAXIAL FEEDER CABLES WILL ALSO BE RELOCATED TO PRECLUDE POSSIBLE DAMAGE. IN ANY CASE REPEATER BEACON ANTENNA WILL NOT BE ACTIVATED UNTIL ABOVE ACTIONS ARE COMPLETED. TO ACCOMPLISH THESE CHANGES, REQUEST GOC APPROVAL IN PRINCIPLE FOR A TEAM OF NOT MORE THAN FIVE PEOPLE TO PROCEED TO FROBISHER HAMLET ASAP.

NAMES AND BIOGRAPHICAL DATA WILL BE PROVIDED USAIRA
SHORTLY."

5. CANADIAN DEFENCE DEPARTMENT (DND) REPRESENTATIVES
AOVISED RADC ON 8 FEB 73 TO DELAY ACTION ON FOREIGN RIGHTS
REQUEST PENDING RESOLUTION OF FROBISHER HAMLET' S SECRETARY/
MANAGER' S COMPLAINT. SINCE USAF NOW PREPARED TO MEET
CONDITIONS CONTAINED REFTTEL, AND IF EXTAFF APPROVES
REQUEST FOR OPERATING RIGHTS, RADC NOW PROPOSES TO COMMENCE
THIS EXPERIMENT DURING FIRST QUARTER OF FISCAL YEAR 1974.

6. PROJECT DATA ARE RELEASABLE TO HOST NATIONAND
COMMUNICATION TESTS MAY BE OBSERVED BY LOCAL OFFICIALS,
IF DESIRED. RUSH

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NNNNMAFVVZCZ

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